

# **Exploring Career Paths and Career Clusters**

## **Industrial & Engineering Technology**

Occupations in this path are related to technologies necessary to design, develop, install, and maintain physical systems. These include engineering, manufacturing, construction, service, and related technologies.

ARCHITECTURE & CONSTRUCTION • SCIENCE, TECHNOLOGY, ENGINEERING & MATHEMATICS MANUFACTURING • TRANSPORTATION, DISTRIBUTION & LOGISTICS

### CAREER PATH **INVENTORY**

Fixing things
Inventing or designing things
Working on cars, mechanical
thin an

Do these activities interest you?

Using	advanced	math t	o solve
proble			

	Using	tools	and	machines
$\neg$	011			

#### Do you have these personal qualities?

Ш	Like using	my	hands
	Practical		Logical

Ш	Practical	Ш	Logical	
	Observant			

☐ Good at following instructions

#### In your free time would you enjoy?

☐ Building stage sets for a play

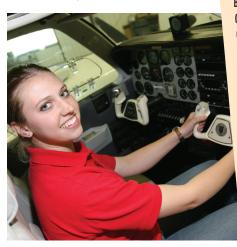
Ш	working on cars or motorcycle	7
	Touring a factory	

#### ☐ Other activities: \_

#### Do you enjoy or do well in these subjects?

	Math	Geometry
П	Science	Technolog

☐ Other subjects:



### CAREER CLUSTERS

TIP!

Visit

with

your

counselor and vour

parents to

help identify

career areas

that might be

good for you to

explore further. Take classes that can

support your goals.

Within the six Career Paths are 16 Career Clusters. School counselors recommend that before or during high school students select a career area that interests them to shape plans for coursework and deepen exploration. The Industrial & Engineering Technology Path has the four Career Clusters listed above.

#### Questions to Ask Yourself

While you are exploring your career options, nothing compares with the first-hand information you can get by talking with someone in your Career Cluster of interest. school

Who could you talk to in this Career Path?

Gaining a variety of career-related experiences can help you identify growing interests, such as job shadowing, completing a project at school, volunteering in your community or taking courses related to vour career interests.

What experience could you seek?

School activities related to Career Clusters in the Industrial and Engineering Technology Career Path include:

- SkillsUSA
- DECA
- Technology Student Association
  - Mathematics Student Competitions
    - Discover Engineering Day
      - Science Club
        Science Fairs

u identify professionals and tunities in this Career Path in your munity?

> your newspaper, look for news stories or features about people who work in this Career Path. Check the Classifieds section for job listings in this career area. Look at ads for businesses that might employ people working in this career

## **SAMPLE OCCUPATIONS** & SALARY RANGES

Architect	\$45-83,000	Can yo	ļ
Auto Mechanic	\$23-44,000	oppor	
Biochemist	\$44-104,000	com	
Carpenter	\$30-58,000		
Chemist	\$45-78,000	Ir	٦
Civil Engineer	\$54-85,000	)	9
Electronics Engineer	\$63-97,0	000	
Nuclear Technician	\$51-7	9,000	
Plumber	\$38	3-68,000	
Welder	(	325-38,000	)
(Annual salaries based on 2007 RIS	C wane data )		

For more information about salaries and job outlook in Missouri, visit www.missourieconomy.org

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This is one of a seven-part career series brought to you by this newspaper. the Missouri Department of Elementary and Secondary Education and the Missouri Press Association.



